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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/888,302	06/21/2001	Jeff E. Blackwood	5201-24200 01-006	9532	
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Gary B. Goate			EXAMI	NER	
LSI Logic Corp 1551 McCarthy			NGUYEN,	VINH P	
MS D-106 Milpitas, CA	95035		ART UNIT	PAPER NUMBER	
•			2829		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application No.	Applicant(s)	<u>, , , , , , , , , , , , , , , , , , , </u>
Period for Reply Art Unit			09/888,302	BLACKWOOD, JEFF E.	
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. The provide for reply specified above is less than theiry (30) days, a neply within the satisfactory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than theiry (30) days, a neply within the satisfactory minimum of thirty (30) days, will be considered timely. If the period for reply specified above is less than theiry (30) days, a neply within the satisfactory minimum of thirty (30) days, will be considered timely. If the period for reply specified above is less than theiry (30) days, a neply within the satisfactory minimum of thirty (30) days, will be considered timely. If the period for reply specified above is less than theiry (30) days, a neply within the satisfactory minimum of thirty (30) days, will be considered timely. A proper of the period of the control of the period of the period of the control of t	· ·	Office Action Summary	Examiner		
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1) Responsive to communication(s) filed on 30 June 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-20 is/are allowed. 6) Claim(s) 7-10-20 is/are ellowed. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are: a) approved by disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.	A SH THE I - Exter after - If the - If NO - Failu - Any r earne	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing	16(a). In no event, however, may a reply be tire within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication.	
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Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) Patent and Trademark Office Ol. 306 (Page 24-94)				•	
'OL 200 (Dev. 04.04)) 🔲 Notice	of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)	
			on Summary	Part of Paper No. 4	

Application/Control Number: 09/888,302

Art Unit: 2829

1. Claims 7 and 10-17 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It appears that the specification does not have original support for the limitations of "the mechanism moves /scan mechanism precisely the width of a die configured on the wafer from the die to each of all neighboring die across the entire wafer" as recited in claims 7 and 10 and the limitation of "consistent amount equal to a width of a die upon the wafer from the die to each of all neighboring die across the entire wafer" as recited in claim 18.

The dependent claims not specifically address share the same indefiniteness as they depend from rejected base claims.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 18-20 (insofar as understood) are rejected under 35 U.S.C. 102(b) as being anticipated by Ishii et al (Pat # 5,493,236).

As to claim 18, Ishii et al disclose a wafer (20) as shown in figure 1. According to Ishii et al, the front surface of this wafer (20) is configured to receive a probe needle (45) and its backside surface is configured to receive radiation when circuits contained upon the frontside

Application/Control Number: 09/888,302

Art Unit: 2829

surface receive electrical energy from the probe needle, the backside surface emits optical energy from the front side surface depending on defects within or near the frontside surface. It appears that the frontside and backside surfaces of the wafer are moved a pre-defined and consistent amount in the interim by a driving mechanism (43a).

As to claim 19, it appears that the frontside surface is adapted to receive electrical stimuli from the probe needles (45) for affecting optical energy emitted from the backside surface.

As to claim 20, it appears that the backside surface is transducent to optical energy displayed as light or dark areas transferred through the backside surface from the frontside surface so that the defects are detected by the test equipment.

- 4. Claims 1-6 and 8-9 are allowable since the prior art of record does not disclose an integrated circuit having at least one electrically conductive probe needles, an optical scan mechanism arranged above the probe needle and holder for receiving a wafer while presenting a backside surface of the wafer upward to the optical scan mechanism and an opposing frontside surface of the wafer downward to the probe needle.
- 5. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is (703) 305-4914.

. Application/Control Number: 09/888,302

Art Unit: 2829

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4900.

VINH P. NGUYEN

PRIMARY EXAMINER

ART UNIT 2829

08/14/03